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Dear Vahid,

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## Process Safety Dispatch

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**Shrink Your Classified Hazardous Areas to Reduce Risk  
(and save money)!**



Maybe you're operating with existing **Classified Hazardous Areas** at your facility or maybe you are modifying plant or building new facility. *In all cases it's worth challenging the extent of your Hazardous Areas.* The reason is simple: Reduced Classified Areas mean improved control of flammable atmospheres, and any possible reclassification from Division 1 to Division 2, for example, means less onerous (and less costly) requirements for cables, conduits, enclosures, motors, etc. Your maintenance will be less too. Simple, right? Well, yes, it is – if you have a good understanding of Hazardous Area Classification and know the methods available to reduce your Classified Hazardous Areas.

Read on and get under the hood of Hazardous Area Classification (HAC) to see how it can be done in practice...

[Read More](#)

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**Upcoming Virtual Live Training Course**  
**- HAC - Dec 13th & 14th**



## Hazardous Area Classifications

You've got flammable atmospheres at your facility. You've got electrical equipment at your facility. Better make sure the two never meet – or else make sure that if they do, the electrics cannot cause a fire or explosion. Knowing where your flammable atmospheres are (classifying hazardous areas) is a fundamental requirement of good process safety – important enough to have its own NFPA standards.

In our bitesize hazardous area classification course, we aim to have you understanding the requirements of the standards. We explain good industrial practice, and point you in the right direction to ensure your plant is safe from the fire and explosion hazards presented by electrical equipment.

[For more info & Registration](#)

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## What is NFPA 497?



NFPA 497 is a US standard published by the National Fire Protection Association (NFPA) that sets out to provide industry with a basic understanding of the parameters that

determine the degree and the extent of hazardous (classified) locations at their facilities. It provides information on specific flammable gases and vapors, flammable liquids, and combustible liquids, whose relevant properties determine their classification into different groups. This is to assist in the selection of special electrical equipment for hazardous (classified) locations where such electrical equipment is required.

A "hazardous area" is defined as an area in which the atmosphere contains, or may contain in sufficient quantities, flammable or explosive gases, dusts, or vapors.

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## What is NFPA 499?



NFPA 499 provides information on the classification of combustible dusts and of hazardous (classified) locations for electrical installations in chemical process areas and other areas where combustible dusts are produced or handled. It provides information on combustible dusts as it relates to the proper selection of electrical equipment in hazardous (classified) locations in accordance with NFPA 70.

A "hazardous area" is defined as an area in which the atmosphere contains, or may contain in sufficient quantities, flammable or explosive gases, dusts, or vapors.

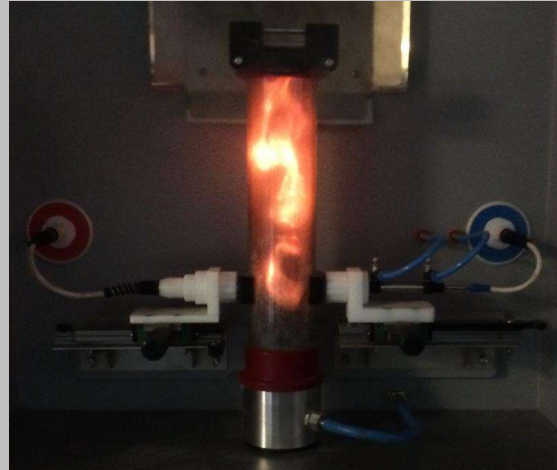
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- Dust Explosion Prevention & Mitigation
- Control of Static Electricity
- Hazardous (Electrical) Area Classification
- Process Hazard Analysis
- Process Safety Management
- Fire and Explosion Hazard Assessment
- Incident Investigation
- Organizational Process Safety Competency Assessment

## **Specialist Laboratory Testing**

- Combustible Dust Testing
- Electrostatic Testing
- Self-Heating / Thermal Instability Testing
- Flammability Testing of Gases & Vapors



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